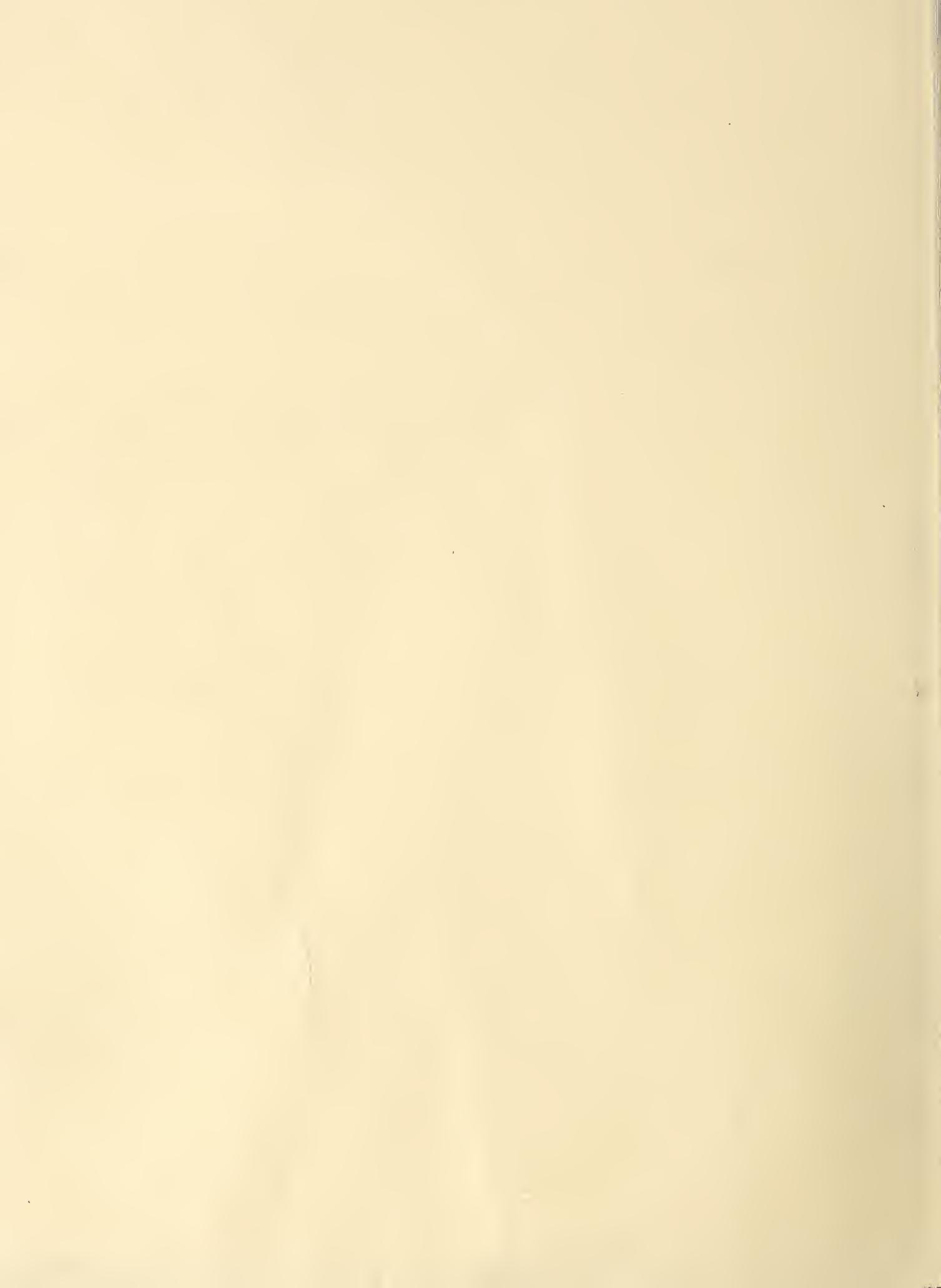


Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.



aTD224
12133

CULTURE

Soil
Conservation
Service

Boise,
Idaho



Idaho Water Supply Outlook

April 1, 1986



Foreward

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado (New Mexico)	2490 West 26th Ave., Denver, CO 80211
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno, NV 89505
Oregon	1220 Southwest 3rd Ave., 16th Floor, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82602

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta, T3C 1A6.

Idaho Water Supply Outlook

and

Federal — State — Private Cooperative Snow Surveys

Issued by

Wilson Scaling
Chief
Soil Conservation Service
Washington, D.C.

Released by

Stanley N. Hobson
State Conservationist
Soil Conservation Service
Boise, Idaho

Prepared by

Gerald A. Beard
Data Collection Office Supervisor
Soil Conservation Service
Rm. 345, 304 N. 8th Street
Boise, Idaho 83702

In cooperation with

A. Kenneth Dunn
Director
State of Idaho
Department of Water Resources
Boise, Idaho

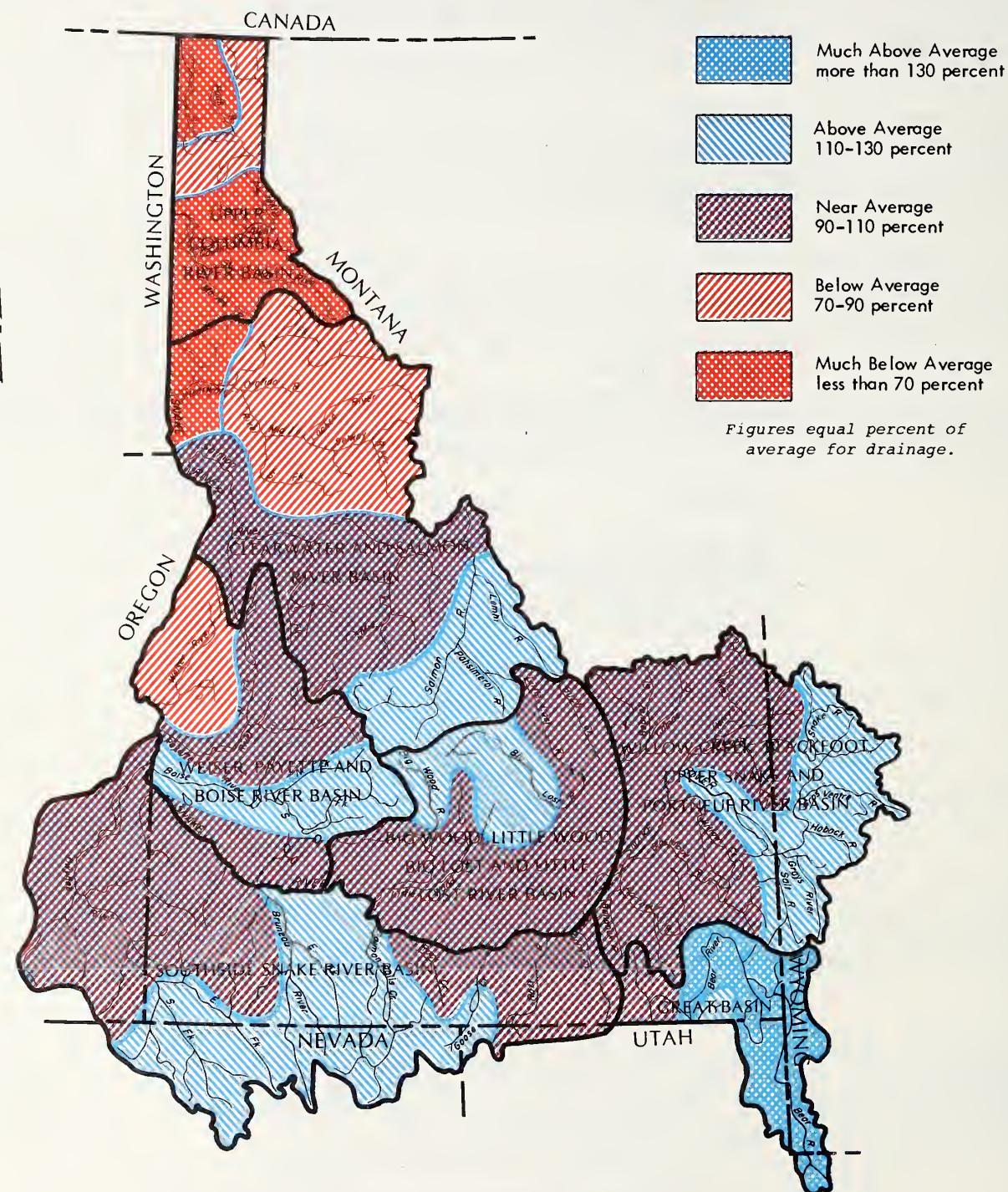
"Programs and assistance of the United States Department of Agriculture are available without regard to race, creed, color, sex, age, or national origin."

STREAMFLOW PROSPECTS IDAHO

0 25 50 75 100 MI

0 50 100 150 KM

LEGEND



Figures equal percent of average for drainage.

IMPORTANT NOTICE:

The Water Supply Outlook is published and distributed as a public service by the USDA, SCS from January to June each year. In order to control the cost of this publication and to ensure maximum use of the information provided we are required to examine our circulation periodically. IF YOU WISH TO REMAIN ON OUR MAILING LIST, PLEASE COMPLETE AND RETURN THE LAST PAGE OF THE WATER SUPPLY OUTLOOK REPORT.

GENERAL OUTLOOK**SUMMARY:**

VERY WARM TEMPERATURES DURING THE MONTH OF MARCH HAVE CAUSED SNOWMELT TO BEGIN 3-4 WEEKS EARLIER THAN NORMAL IN IDAHO'S MOUNTAIN SNOWPACKS. SNOWPACK CONDITIONS AS WELL AS STREAMFLOW PROSPECTS NOW RANGE FROM WELL BELOW NORMAL IN NORTHERN IDAHO TO WELL ABOVE NORMAL IN SOUTHEASTERN IDAHO. WITH ABOVE AVERAGE RESERVOIR STORAGE ACROSS THE STATE, WATER SUPPLIES SHOULD BE ADEQUATE FOR THE COMING IRRIGATION SEASON.

SNOWPACK:

Very mild temperatures during March triggered snowmelt to begin 3-4 weeks earlier than normal and snow surveys taken near April 1 show snowpack conditions have deteriorated significantly during the month. Low elevation snowpacks are now gone and the mid-elevation snowpacks are being depleted much earlier than normal. Most high elevation snowpacks continued to increase during the month but at less than the normal rate. The high elevation packs are expected to begin melting in early April if current temperature trends continue. April 1 basin snowpack figures show northern Idaho snowpack conditions remain below to well below normal, ranging from 59 to 80 percent of average. Central Idaho snowpacks are reported to be near or above normal, ranging from 91 to 124 percent of average. The exceptions are the Weiser and Little Lost River basins which are only 80 and 83 percent of normal, respectively. Snowpacks in the eastern part of the state and in the Upper Snake River basin in Wyoming range from 92 to 122 percent of average. Snowpacks on the south side of the Snake in extreme southern Idaho and northern Nevada range from 96 to 113 percent of normal except for the Goose and Trapper Creek basin which reports 134 percent of average. The Great Basin in southeastern Idaho reports above to well above average snowpack conditions.

PRECIPITATION:

March precipitation amounts varied widely across the state with most occurring during the first two weeks of the month. Northern Idaho ranged from slightly above normal to only 60 percent of normal. The central portion of the state also had a wide range with Ketchum at 160 percent of normal but Salmon receiving just 60 percent. The Southeast was generally near to well above normal, with Ashton reporting 155 percent of normal. The Southwest was also at to well above normal with Boise having one of the higher totals for the state at 195 percent of average.

Temperatures were more consistent and were well above normal throughout the state. Many record highs were set during the last week of the month with all valley stations recording highs in the seventies. Some stations reported the second or third warmest March ever recorded.

RESERVOIRS:

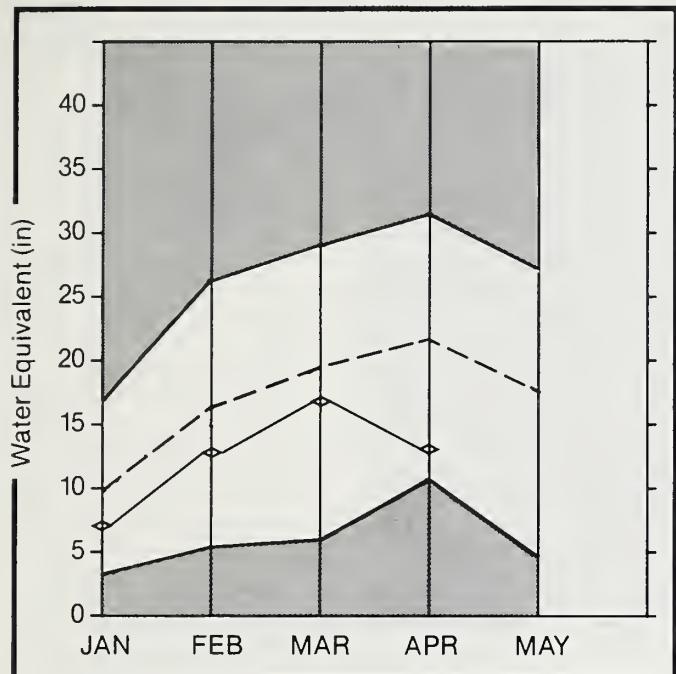
Many reservoirs are filling earlier than usual as a result of early snowmelt and above normal streamflow conditions during February and March. A few reservoirs, including Priest Lake, Coeur d'Alene Lake, Lake Lowell, and Owyhee Reservoir are nearly filled to capacity. Reservoir storage as of April 1 is reported at 118 percent of normal in 20 key reservoirs across the state with most reporting between 90 and 150 percent of their average April 1 useable contents.

STREAMFLOW:

March streamflows were reported to be above to well above normal throughout the state. This, coupled with the declining snowpack figures for April 1 indicates that spring snowmelt runoff is occurring much earlier than normal. As a result, most April-July volume forecasts have been decreased 5 to 15 percent from those reported last month. April-July streamflows in northern Idaho, from the Clearwater drainage north, are now expected to range from only 60 to 73 percent of normal. Central Idaho watersheds are expected to have near normal April-July streamflow volumes, ranging from 90 to 114 percent of average. Seasonal volume forecasts on the Upper Snake watershed range from 94 percent of average on the Henry's Fork near Ashton to 118 percent on the Snake at Heise. Flows in extreme southeastern Idaho are expected to be above to well above normal, ranging from 117 percent of average on the Cub River near Preston to 139 percent on Montpelier Creek near Montpelier. Forecasts on tributaries south of the Snake River range from 97 percent of average for Owyhee Reservoir inflow for the April-July period to 123 percent on the Bruneau near Hot Springs for the March-July forecast period. Water supplies should be good for most basins across southern Idaho for most of the season. However, late summer flows could be lower than normal due to the early runoff.

Upper Columbia Basin

Mountain snowpack* (inches)



*Based on selected stations

Maximum



Average



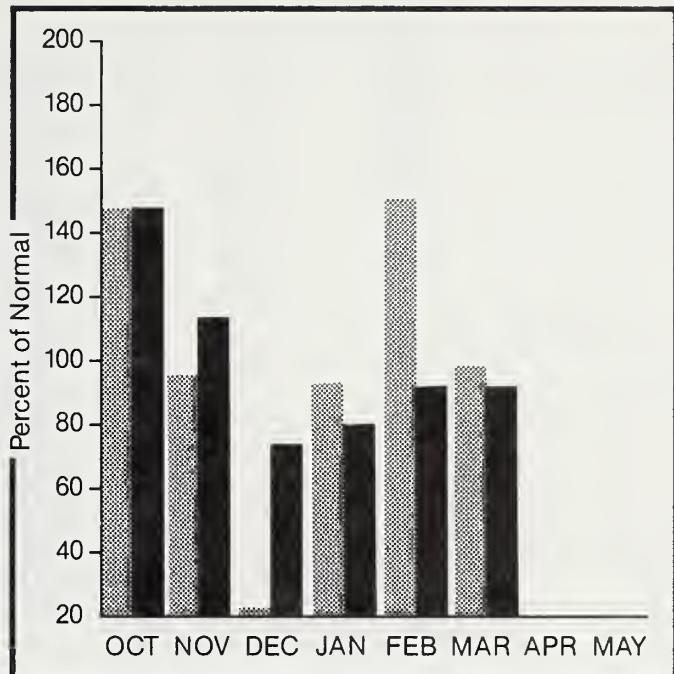
Minimum



Current



Precipitation* (percent of normal)



*Based on selected stations



Year to date precipitation



WATER SUPPLY OUTLOOK:

Mild Temperatures continued through March, dissipating much of the lower and middle elevation snowpacks. Basinwide snowpack figures now range from only 54 to 72 percent of average. April-July seasonal volume streamflows are expected to be below to well below normal, ranging from 60 to 73 percent of average. Due to the early snowmelt, most of the runoff is expected to occur in April and early May, with streams returning to lower flows by early June.

For more information contact your local Soil Conservation Service office.

UPPER COLUMBIA RIVER BASIN

STREAMFLOW FORECASTS

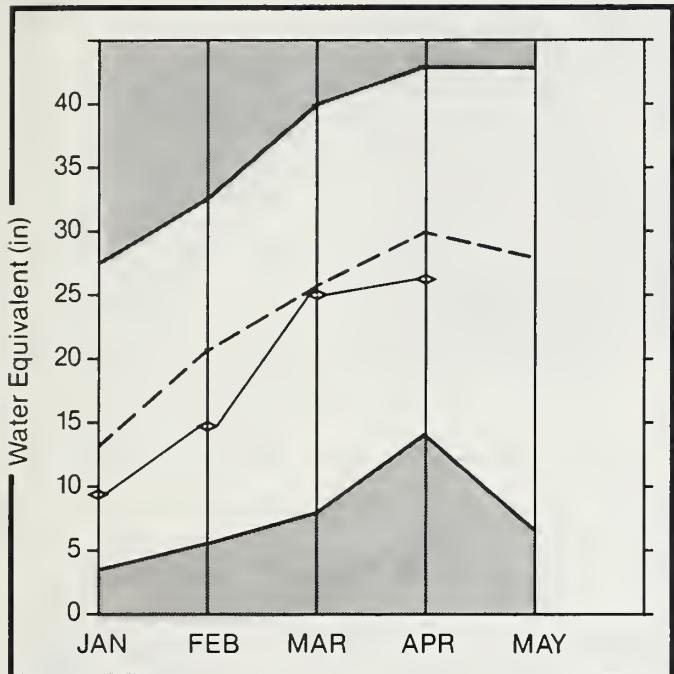
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
KOOTENAI at Leonia *	APR-SEP	8602.0	7130.0	82	103	63				
	APR-JUL	7498.0	6220.0	82	103	63				
	APR-JUN	6051.0	5020.0	82	103	63				
CLARK FORK at White Horse Rapids *	APR-SEP	13575.0	10300.0	75	92	60				
	APR-JUL	12351.0	9370.0	75	92	60				
	APR-JUN	10570.0	8033.0	75	92	60				
PEND OREILLE LAKE inflow *	APR-SEP	15150.0	11200.0	73	90	58				
	APR-JUL	13875.0	10300.0	74	90	58				
	APR-JUN	12010.0	8890.0	74	90	58				
FRIEST RIVER at Priest *	APR-SEP	885.0	597.0	67	98	36				
	APR-JUL	832.0	561.0	67	98	36				
SPOKANE at Post Falls *	APR-SEP	2848.0	1710.0	60	87	33				
	APR-JUL	2754.0	1650.0	59	84	36				
ST. JOE at Calder	APR-SEP	1294.0	829.0	64	84	44				
	APR-JUL	1225.1	786.0	64	84	44				
COEUR D'ALENE at Enaville	APR-SEP	844.2	548.0	64	98	32				
	APR-JUL	804.8	523.0	64	95	35				

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS				
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF	
	THIS YEAR	LAST YEAR	AVE.				LAST YR.	AVERAGE
HUNGRY HORSE	3451.0	2515.0	1796.0	2054.0	Kootenai ab Bonners Ferry	57	77	70
FLATHEAD LAKE	1791.0	805.3	649.3	762.0	Pend Oreille River	166	83	77
PEND OREILLE	1155.1	555.0	182.1	392.5	Clark Fork River	109	90	81
NOXON RAPIDS	335.0	299.8	156.2	197.6	Priest River	6	55	59
COEUR D'ALENE	225.1	223.1	97.1	168.2	Rathdrum Creek	1	71	73
PRIEST LAKE	72.0	26.0	---	---	Hayden Lake	4	13	19
					Coeur d'Alene River	8	91	99
					St. Joe River	7	60	62
					Spokane River	19	69	75
					Falouse River	3	29	49

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Clearwater and Salmon River Basin

Mountain snowpack* (inches)



*Based on selected stations

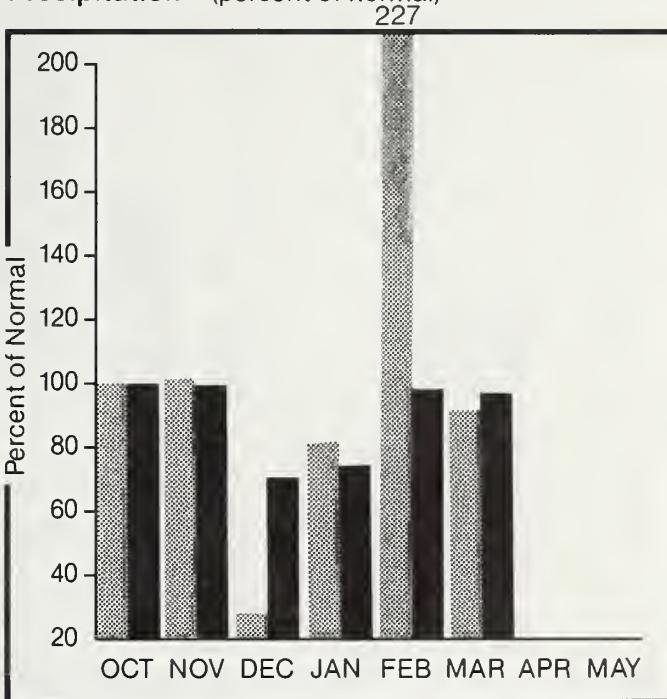
Maximum Average

Minimum

Average

Current

Precipitation* (percent of normal)



*Based on selected stations

WATER SUPPLY OUTLOOK:

Precipitation was near normal over most of the basin but snowpack conditions deteriorated from that reported last month as a result of above normal temperatures and early snowmelt. Snowpack conditions now range from 73 percent of normal on the NF Clearwater to 115 percent on the Salmon basin. April-July streamflows are expected to range from 63 percent of normal on the Clearwater at Spalding to 111 percent on the Salmon at Salmon. Peak flows should be 2 to 4 weeks earlier than usual due to early snowmelt.

For more information contact your local Soil Conservation Service office.

CLEARWATER AND SALMON RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
CLEARWATER at Orofino	APR-SEP	5185.0	3630.0	70	91	49				
	APR-JUL	4917.0	3390.0	68	90	48				
CLEARWATER at Spalding	APR-SEP	8460.0	6040.0	71	90	50				
	APR-JUL	8000.0	5620.0	70	90	50				
DWORSHAK RESERVOIR inflow	APR-SEP	2985.0	2140.0	71	89	55				
	APR-JUL	2805.0	2010.0	71	89	55				
SALMON at Whitebird	APR-SEP	6876.0	7160.0	104	120	88				
	APR-JUL	6211.0	6470.0	104	120	88				
SALMON at Salmon	APR-SEP	1053.0	1170.0	111	149	73				
	APR-JUL	899.0	999.0	111	149	73				

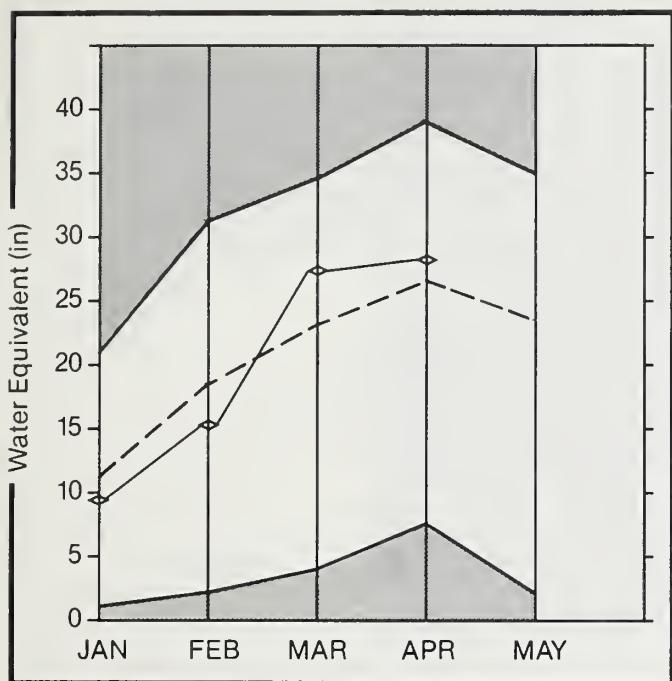
RESERVOIR STORAGE (1000AF) | WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVE.				
DWORSHAK	2016.0	1196.8	219.3	---	North Fork Clearwater	13	74	73
					Lochsa River	5	81	77
					Selway River	7	93	80
					Clearwater River	22	80	75
					Salmon River ab Salmon	11	139	115
					Lemhi River	7	114	107
					Salmon River Total	28	116	102

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Weiser, Payette, and Boise River Basin

Mountain snowpack* (inches)



*Based on selected stations

Maximum



Average



Minimum

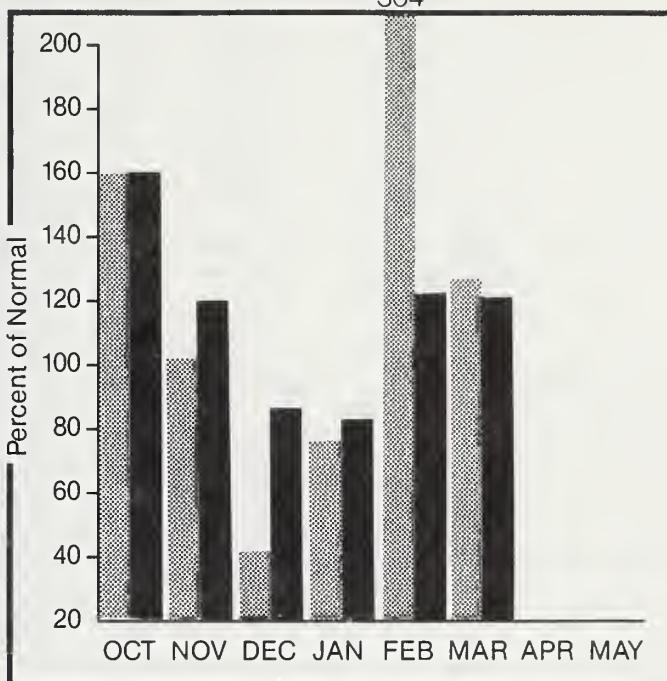


Current



Precipitation* (percent of normal)

304



*Based on selected stations

Monthly precipitation



Year to date precipitation



WATER SUPPLY OUTLOOK:

Snowpack conditions have deteriorated since March 1 but remain near to slightly above normal for April 1, ranging from 91 percent of average on the North Fork Payette to 118 percent on the South Fork Boise. One exception is the Weiser basin which reports only 80 percent of normal snowpack. April-July streamflows range from 98 to 111 percent of normal with the exception of the Weiser near Weiser which is forecast at 78 percent of normal. Reservoir storage is above average in most reservoirs.

For more information contact your local Soil Conservation Service office.

WEISER, PAYETTE AND BOISE RIVER BASIN

STREAMFLOW FORECASTS

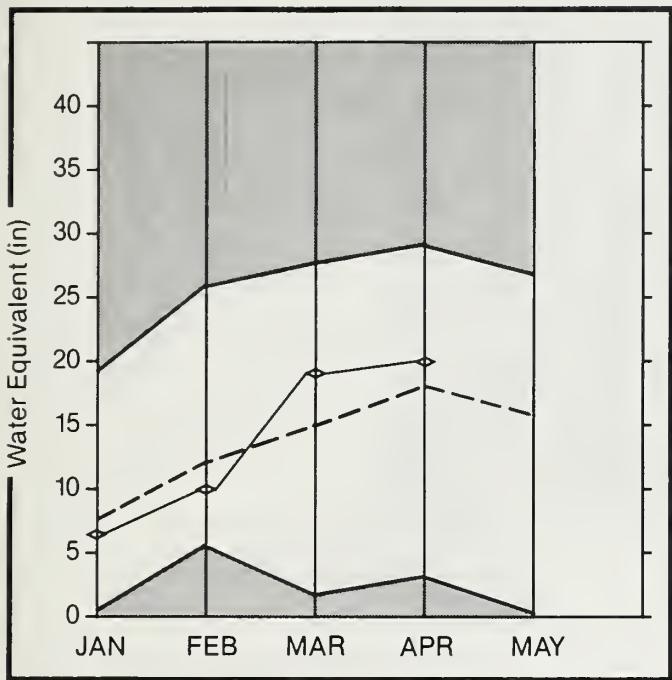
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
WEISER nr Weiser	APR-SEP	427.0	336.0	78	111	46				
	APR-JUL	399.0	314.0	78	111	46				
PAYETTE nr Horseshoe	APR-SEP	1805.0	1820.0	100	118	82				
	APR-JUL	1668.0	1680.0	100	118	82				
NF PAYETTE at Cascade	APR-SEP	553.4	542.0	97	113	83				
	APR-JUL	517.8	508.0	98	113	83				
NF PAYETTE nr Banks	APR-SEP	712.4	669.0	93	113	75				
	APR-JUL	671.4	637.0	94	114	76				
SF PAYETTE at Lowman	APR-SEP	497.2	511.0	102	121	85				
	APR-JUL	440.6	453.0	102	121	85				
DEADWOOD RESERVOIR inflow	APR-JUL	141.0	143.0	101	120	84				
BOISE RIVER nr Twin Springs	APR-SEP	705.4	790.0	111	130	94				
	APR-JUL	650.0	728.0	111	130	94				
SF BOISE at Anderson Dam	APR-SEP	589.5	660.0	111	131	93				
	APR-JUL	551.3	617.0	111	131	93				
BOISE RIVER nr Boise	APR-SEP	1571.4	1743.0	110	131	91				
	APR-JUL	1454.4	1630.0	112	132	92				
	APR-JUN	1279.4	1430.0	111	132	92				

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS				
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF	
	YEAR	THIS YEAR	LAST YEAR	AVE.			LAST YR.	AVERAGE
MANN CREEK	11.1	11.1	7.4	---	Mann Creek	4	59	63
CASCADE	653.2	447.5	405.8	301.6	Weiser River	9	82	80
DEADWOOD	161.9	108.2	115.9	85.4	North Fork Payette	9	98	91
ANDERSON RANCH	423.2	353.3	274.4	231.8	South Fork Payette	6	104	100
ARROWROCK	286.6	220.6	214.3	239.1	Payette River Total	15	100	94
LUCKY PEAK	278.2	187.7	108.1	114.1	Middle & North Fork Boise	8	128	116
LAKE LOWELL (DEER FLAT)	169.0	159.2	123.1	139.2	South Fork Boise River	10	121	118
					Boise River Total	19	113	112
					Canyon Creek	3	75	99

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Big Wood, Little Wood, Big Lost, and Little Lost River Basin

Mountain snowpack* (inches)

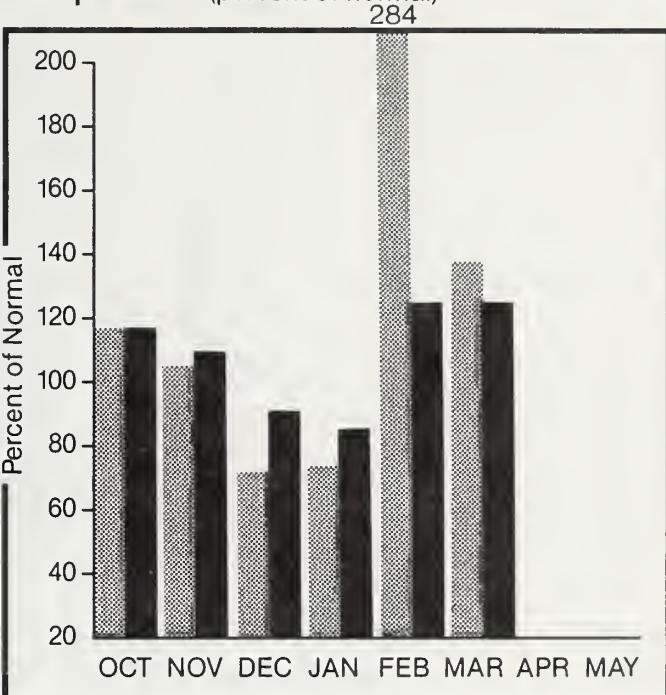


*Based on selected stations

Maximum Average

Minimum Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation
Year-to-date precipitation

WATER SUPPLY OUTLOOK:

Mild temperatures during March prompted early season snowmelt in the lower and middle elevation zones. Basinwide snowpack conditions, however, remain near or above normal, ranging from 106 to 124 percent of average on all basins except the Little Lost drainage which reports only 83 percent of normal snowpack. April-July streamflows are expected to range from 87 percent of normal on the Little Lost near Howe to 114 percent on the Big Lost and Big Wood drainages. Peak flows are expected to occur much earlier than usual.

For more information contact your local Soil Conservation Service office.

BIG WOOD, LITTLE WOOD, BIG LOST AND LITTLE LOST RIVER BASIN

STREAMFLOW FORECASTS

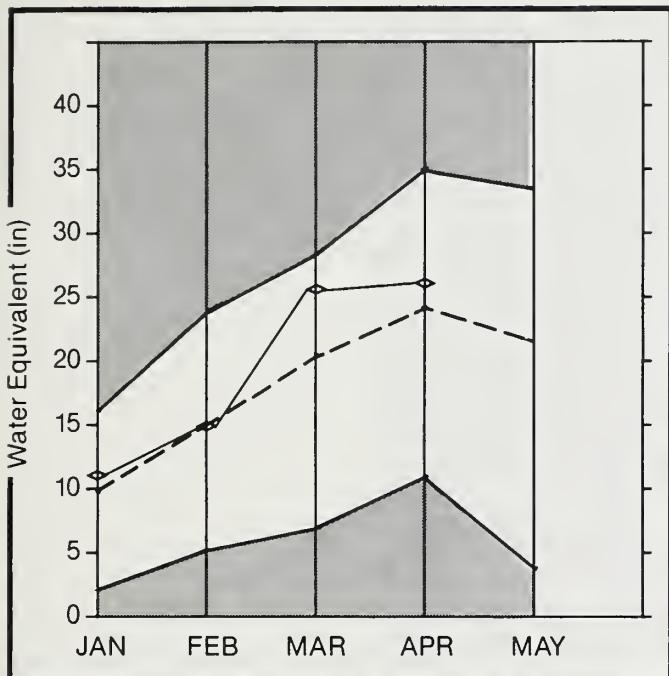
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
BIG WOOD nr Bellevue	APR-SEP	193.3	222.0	114	141	89				
	APR-JUL	179.8	206.0	114	141	88				
MAGIC RESERVOIR inflow	APR-SEP	307.0	332.0	108	150	66				
	APR-JUL	293.0	316.0	107	150	66				
LITTLE WOOD nr Carey	APR-SEP	100.9	106.0	104	133	77				
	APR-JUL	93.1	98.0	105	133	77				
BIG LOST at Howell Ranch	APR-SEP	211.2	240.0	113	144	83				
	APR-JUL	186.1	214.0	114	146	84				
	APR-JUN	144.4	167.0	115	147	84				
BIG LOST nr Mackay	APR-SEP	183.7	212.0	115	150	81				
LITTLE LOST b1 Wet Ck	APR-SEP	38.7	34.9	89	124	54				
	APR-JUL	31.3	28.3	90	124	54				
LITTLE LOST nr Howe	APR-SEP	42.2	37.0	87	121	54				
	APR-JUL	32.5	28.4	87	120	55				

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS					
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES	THIS YEAR AS % OF		
	YEAR	THIS YEAR	LAST YEAR	AVE.			AVE.D	LAST YR.	AVERAGE
MAGIC	191.5	186.4	143.8	113.7	Big Wood ab Magic	8	150	124	
LITTLE WOOD	30.0	22.9	21.7	18.2	Camas Creek	5	92	108	
CAREY VALLEY	14.4	13.9	9.4	---	Big Wood Total	12	129	119	
MACKAY	44.2	38.2	38.2	32.3	Little Wood River	4	120	106	
					Fish Creek	2	116	145	
					Big Lost River	8	147	117	
					Little Lost River	3	100	83	

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Willow Creek, Blackfoot, Upper Snake, and Portneuf River Basin

Mountain snowpack* (inches)



*Based on selected stations

Maximum



Average



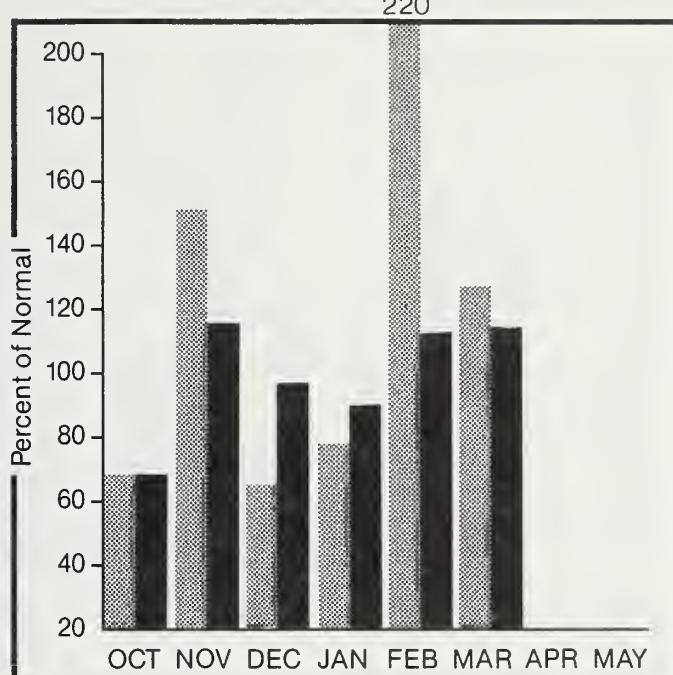
Minimum



Current



Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation



Year to date precipitation



WATER SUPPLY OUTLOOK:

Earlier than normal snowmelt occurred in the lower elevations during March but basinwide snowpack conditions remain near to above average. Current snowpack conditions range from 92 to 122 percent of average throughout the basin except for the Beaver-Camas Creek drainage near Dubois which reports only 80 percent of normal snowpack. Water supplies should be good in most basins with April-July seasonal runoff volumes forecast to range from 95 to 118 percent of normal. Late season flows could be lower than usual.

For more information contact your local Soil
Conservation Service office.

WILLOW CREEK, BLACKFOOT, UPPER SNAKE AND PORTNEUF RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
HENRY'S FORK nr Ashton *	APR-SEP	714.0	683.0	95	111	81				
	APR-JUL	529.1	506.0	95	111	81				
HENRYS FORK nr Rexburg *	APR-SEP	1474.7	1470.0	99	115	85				
	APR-JUL	1153.3	1150.0	99	115	85				
FALLS RIVER nr Squirrel	APR-JUL	366.0	383.0	104	117	93				
TETON RIVER ab S Leigh Ck	APR-SEP	193.9	209.0	107	121	95				
	APR-JUL	145.0	157.0	108	121	95				
TETON nr St. Anthony	APR-SEP	465.0	495.0	106	119	94				
	APR-JUL	375.0	399.0	106	119	93				
SNAKE at Moran *	APR-SEP	880.0	1030.0	117	117	117				
PALISADES LAKE inflow *	APR-SEP	3793.0	4500.0	118	128	119				
SNAKE nr Heise *	APR-SEP	4066.5	4820.0	118	139	99				
	APR-JUL	3464.8	4100.0	118	138	98				
SNAKE nr Blackfoot *	APR-SEP	5537.0	6150.0	111	131	91				
	APR-JUL	4465.0	5040.0	112	133	93				
PORTNEUF at Topaz	MAR-SEP	102.0	109.0	106	141	73				
	MAR-JUL	82.1	88.0	107	141	73				

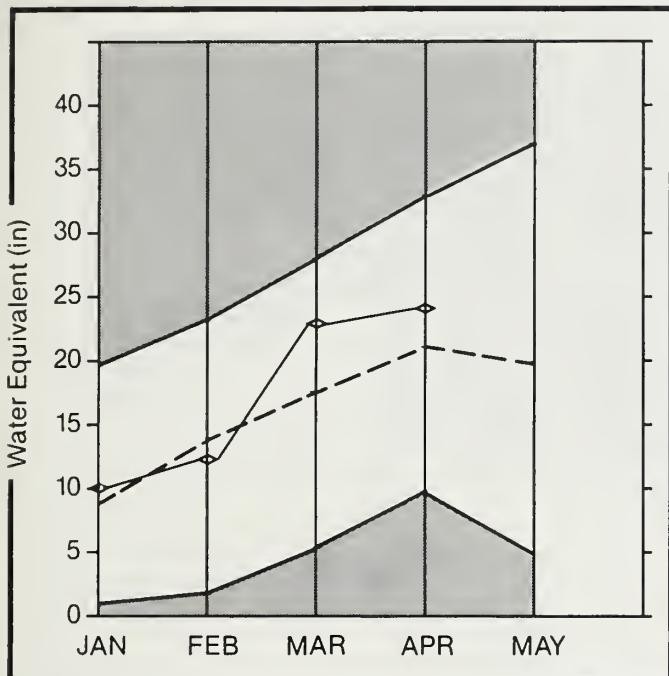
RESERVOIR STORAGE (1000AF) | WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE THIS YEAR	** USEABLE STORAGE LAST YEAR	AVE.	WATERSHED	NO. COURSES	THIS YEAR AS % OF LAST YR.	AVERAGE
ISLAND PARK	127.0	107.6	108.9	118.8	Camas-Beaver Creeks	3	90	80
GRASSY LAKE	15.1	13.5	13.3	10.6	Henrys Fork River	14	117	105
JACKSON LAKE	624.4	119.6	217.4	545.3	Teton River	9	114	113
PALISADES	1200.0	640.4	914.9	788.9	Snake above Palisades	30	136	118
AMERICAN FALLS	1673.0	1423.7	1398.6	1429.5	Snake above Jackson Lake	8	125	117
BROWNLEE	980.2	574.2	351.9	440.3	Gros Ventre River	3	154	122
					Greys River	4	145	114
					Salt River	5	128	108
					Willow Creek	9	83	92
					Blackfoot River	4	117	122
					Portneuf River	4	100	102
					Toponce Creek	0	0	0

*Corrected for upstream diversions or changes in reservoir storage.
 Average is for 1961-80 period.

Southside Snake River Basin

Mountain snowpack* (inches)



*Based on selected stations

Maximum



Average



Minimum

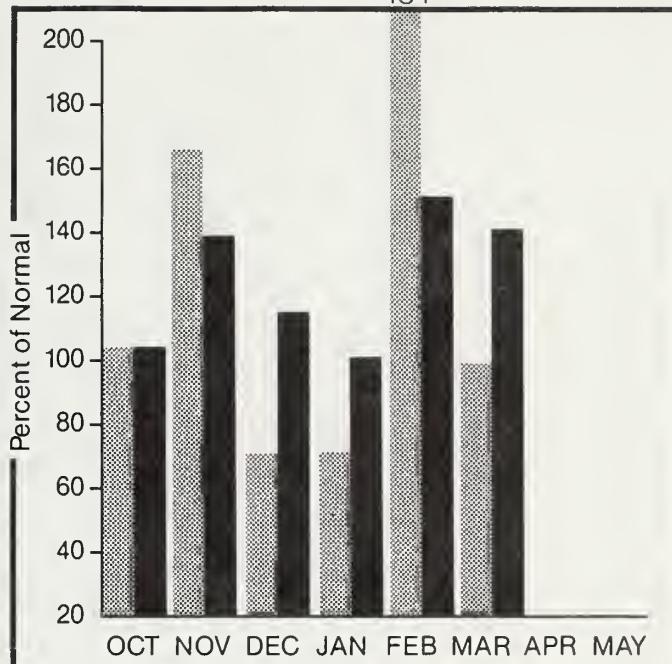


Current



Precipitation* (percent of normal)

434



*Based on selected stations

Monthly precipitation



Year to date precipitation



WATER SUPPLY OUTLOOK:

Mild temperatures during March continued the snowmelt trend established during February and most low and middle elevation snowpacks are now depleted. Higher elevation packs, however, remain above normal, bringing basinwide snowpack conditions to near or slightly above normal. April-July volume streamflows are expected to be near or above normal, ranging from 97 to 122 percent of average. The March-July forecast for the Bruneau River and Salmon Falls Creek basins are 123 and 115 percent of average, respectively.

For more information contact your local Soil Conservation Service office.

SOUTHSIDE SNAKE RIVER BASIN

STREAMFLOW FORECASTS

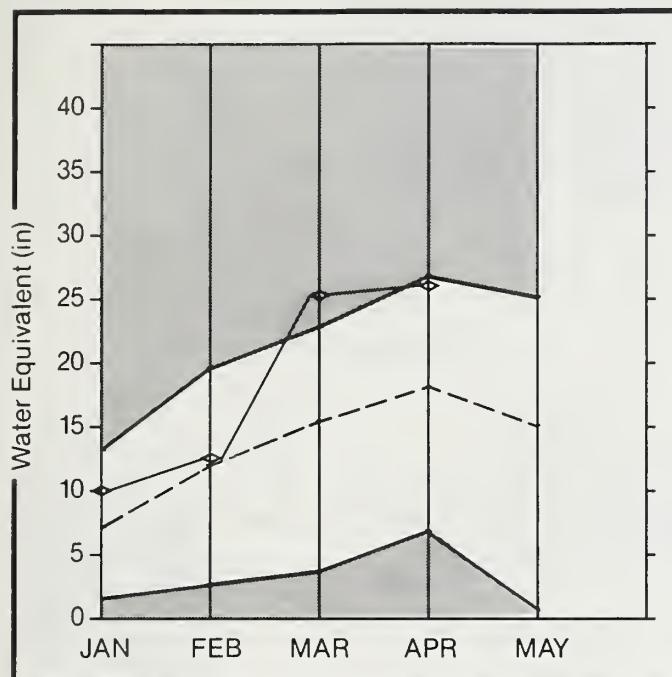
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
OAKLEY RESERVOIR inflow	APR-SEP	30.2	33.2	110	147	73				
	APR-JUL	27.2	30.5	112	150	75				
SALMON FALLS CK nr San Jacinto	MAR-SEP	93.9	107.0	113	154	73				
	MAR-JUL	89.3	103.0	115	156	75				
	MAR-JUN	84.3	98.0	116	156	76				
BRUNEAU nr Hot Spring	MAR-SEP	243.3	301.0	123	164	84				
	MAR-JUL	231.5	287.0	123	128	120				
OWYHEE RIVER nr Gold Creek *	APR-JUL	22.0	27.0	122	168	82				
OWYHEE RIVER nr Owyhee *	APR-JUL	85.4	100.0	117	158	76				
OWYHEE LAKE inflow *	APR-SEP	376.0	368.0	97	145	51				
	APR-JUL	349.0	342.0	97	145	51				
OWYHEE at Rome *	APR-JUL	376.0	368.0	97	143	53				

RESERVOIR	RESERVOIR STORAGE			WATERSHED	WATERSHED SNOWPACK ANALYSIS		
	USEABLE CAPACITY	** USEABLE STORAGE **			NO. COURSES AVE.D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVE.		LAST YR.	AVERAGE
OAKLEY	74.4	52.6	49.0	33.2	8	142	113
SALMON FALLS	182.6	133.5	139.7	58.3	3	128	134
OWYHEE	715.0	706.1	621.3	560.8	11	80	96
					10	84	96
					18	75	97

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Great Basin

Mountain snowpack* (inches)



*Based on selected stations

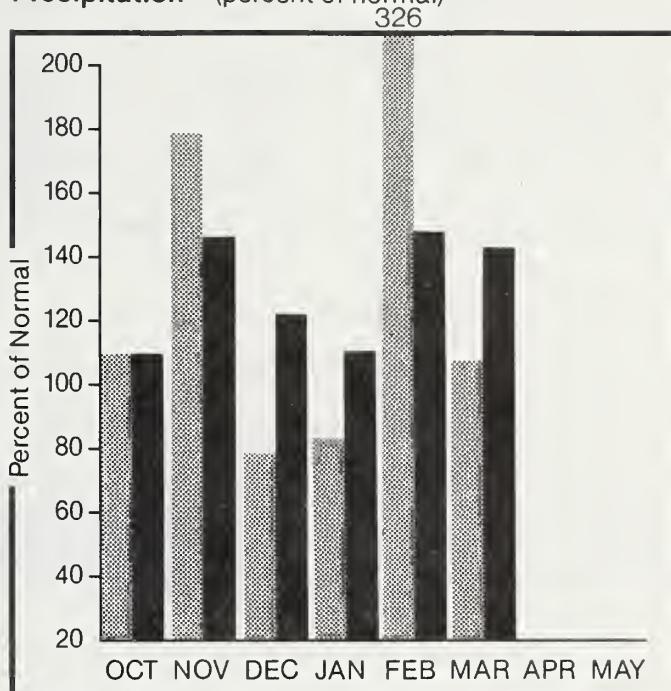
Maximum —————

Average -----

Minimum —————

Current ←→

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

April 1 snow surveys show snowpack conditions remain near to well above normal throughout the basin, ranging from 87 percent of normal on the Malad River drainage to 142 percent in the Montpelier Creek basin. April-September streamflow forecasts range from 117 to 139 percent of normal. Peak flows could be high, depending on temperature and precipitation conditions during the runoff period. Residents in flood potential areas should monitor weather conditions and be prepared to take appropriate action.

For more information contact your local Soil Conservation Service office.

GREAT BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
BEAR at Harer	APR-SEP	310.0	419.0	135	157	113				
MONTPELIER CK nr Montpelier	APR-SEP	13.9	19.5	139	179	101				
CUB RIVER nr Preston	APR-SEP	51.7	61.0	117	118	118				
	APR-JUL	46.8	55.0	117	139	96				

RESERVOIR STORAGE (1000AF) | WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY			** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE,D	THIS YEAR AS % OF	
	THIS YEAR	LAST YEAR	AVE.						LAST YR,	AVERAGE
BEAR LAKE	1421.0	1123.8	1045.9	991.5			Bear River (above Harer)	11	156	132
MONTPELIER CREEK	4.0	1.3	---	---			Montpelier Creek	6	155	142

| Mink Creek

| Cub River

| Malad River

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

NOTICE TO SNOW SURVEY BULLETIN SUBSCRIBERS

The Snow Survey Bulletin is published and distributed as a public service by the USDA, SCS from January to June each year. In order to control the cost of this publication and ensure maximum use of the information provided we are required to examine our circulation periodically. SHOULD YOU WISH TO RENEW YOUR SUBSCRIPTION, CHANGE THE MAILING ADDRESS, OR OFFER SUGGESTIONS, PLEASE COMPLETE AND RETURN THIS PAGE. IF NOT RETURNED WITHIN 30 DAYS, YOUR NAME WILL BE REMOVED FROM OUR LIST.

Please indicate the reports you want to receive. If you want more than one copy of a report, please indicate the number.

Water Supply Outlook for Idaho

Annual Snow Survey Data Summary

Basic Data Report

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

SUGGESTIONS WHICH MIGHT IMPROVE THE QUALITY OR FORMAT OF THIS PUBLICATION

.....(FOLD HERE).....

USDA, Soil Conservation Service
304 N 8th Street Room 345
Boise ID 83702

FIRST
CLASS
POSTAGE
REQUIRED

SNOW SURVEY DCO SUPERVISOR
SOIL CONSERVATION SERVICE
304 N 8TH STREET, ROOM 345
BOISE ID 83702

The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

State	<p>Idaho Department of Water Resources Oregon State Engineer and Corps of State Watermasters Soil and Water Conservation Districts of Idaho</p>
Federal	<p>U.S. Department of Agriculture Forest Service U.S. Department of Army Corps of Engineers U.S. Department of Commerce NOAA, National Weather Service U.S. Department of Interior Bureau of Reclamation Geological Survey, Water Resources Division Shoshone-Bannock Tribal Council</p>
Local	<p>Big Lost River Irrigation District Big Wood Irrigation Company Boise Project Board of Control Idaho Water District #01 Lewiston Orchards Irrigation District Little Wood River Irrigation District North Board of Control — Owyhee Project Salmon Falls Creek Irrigation Company South Board of Control — Owyhee Project</p>
Private	<p>Cyprus Mining Company FMC Corporation Idaho Power Company Le Bois Resort Washington Water Power Company</p>

Other organizations and individuals furnish information for the snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

THIRD CLASS BULK RATE
POSTAGE AND FEES PAID
USDA - SCS
PERMIT NO. G-267

THIRD CLASS MAIL

**Idaho
Water Supply Outlook**

and

Federal — State — Private
Cooperative Snow Surveys



SOIL CONSERVATION SERVICE

U S DEPARTMENT OF AGRICULTURE
NATIONAL AGRICULTURAL LIBRARY
SERIALS BRANCH ROOM 602 J86/1189
10301 BALTIMORE BOULEVARD
BELTSVILLE MD 20705